

30703

Reactions of Chlorine-containing Telomers of Diene Hydrocarbons. III. Production of Aldehydes and Ketones From the Products of the Addition of Tertiary Butyl Chloride to Divinyl and Chloroprene

S/079/60/030/05/11/074
B005/B002

acetone in the presence of sodium alcoholate, diene ketones were obtained in the form of pale-yellow oils with a pleasant smell. The infrared spectra of the two ketones (2,2-dimethyl nonadiene-4,6-one(8), and 4-chloro-2,2-dimethyl nonadiene-4,6-one(8)) respectively, are likewise shown in Fig. 2. On the hydrogenation of aldehyde (I) in the presence of colloidal palladium, the main resulting product is 5,5-dimethyl hexanal, which, however, contains an admixture of the corresponding alcohol. Hence, hydrogenation does not proceed selectively under these conditions. Investigations revealed that the telomerization reaction can be applied to the production of a number of unsaturated aldehydes and ketones with a quaternary carbon atom from diene compounds. All the operations are described in great detail in the experimental part of the paper. Yield, boiling point, refractive index, density, and characteristic frequencies of the infrared spectrum are specified for each of the products obtained. The infrared spectra were taken by means of a spectrophotometer of type MKC-14 (IKS-14), and an apparatus of type MKC-2 (IKS-2) was used in one

Card 3/4

S/079/60/030/010/014/030
B001/B066

AUTHORS: Kolyaskina, Z. N. and Petrov, A. A.

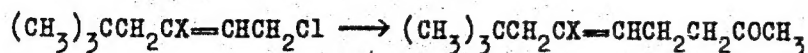
TITLE: Reactions of Chlorine-containing ¹Telomers of Diene
Hydrocarbons. IV. Reactions of 1-Chloro-5,5-dimethyl
Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2 With
Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 10,
pp. 3243 - 3247

TEXT: For the purpose of using the adducts of tertiary halogen deriva-
tives on diene compounds in organic synthesis, the authors investigated
the reactions of 1-chloro-5,5-dimethyl hexene-2 and 1,3-dichloro-5,5-di-
methyl hexene-2 with sodium acetoacetic and sodium malonic acid esters.
Following Ref. 2 the authors show that, under ordinary conditions, un-
saturated ketones with quaternary carbon atoms at the end of the chain
are obtained from both chlorides and sodium acetoacetic ester, accord-
ing to the Scheme

Card 1/3

Reactions of Chlorine-containing Telomers of S/079/60/030/010/014/030
Diene Hydrocarbons. IV: Reactions of B001/B066
1-Chloro-5,5-dimethyl Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2
With Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters



(I) X = H, (II) X = Cl. These ketones are colorless oils, insoluble in water, of pleasant odor, readily forming crystalline products with hydrazine derivatives. Two frequencies in the infrared spectrum of the ketones indicate the presence of a double bond, and in the spectrum of the ketone (I) there is one frequency to be assigned to the group $-\text{CH}=\text{CH}-$ (trans). The frequencies of a vinyl group are missing. On condensation of the same chlorides with sodium malonic ester, the corresponding alkenyl malonic acid esters result, but with lower yields (Scheme 2). Like in the reaction with sodium acetoacetic ester, that with sodium malonic ester takes place without allyl rearrangement. In the infrared spectra of the esters (III) and (V), as well as of the acids (IV) and (VI), the characteristic deformation frequencies of the vinyl group are absent (Fig.2). The spectra of the ester (III) and of the acid (IV) show sufficiently intense frequencies of the group $-\text{CH}=\text{CH}-$. Their semicarbazones were synthesized in crystalline form as

Card 2/3

Reactions of Chlorine-containing Telomers of S/079/60/030/010/014/030
Diene Hydrocarbons. IV. Reactions of B001/BC66
1-Chloro-5,5-dimethyl Hexene-2 and 1,3-Dichloro-5,5-dimethyl Hexene-2
With Sodium Acetoacetic Acid- and Sodium Malonic Acid Esters

derivatives of the resultant ketones, and their amides as derivatives
of the resultant acids. There are 2 figures and 4 Soviet references.

ASSOCIATION: Leningradskiy tekhnologicheskij institut imeni Lensovet
(Leningrad Technological Institute imeni Lensovet)

SUBMITTED: October 25, 1959

Card 3/3

SWT(m)/EPF(c)/EWP(j)/T/EWA(c) 1984-85-001/004/0643/0645
 178: AP5011188

AUTHORS: Kolyaskina, Z. N.; Kim Gi ym

Reactions of chlorine-bearing telomers of dienes. 13. Synthesis of
 amines with quaternary carbon atoms

Dokl. Akad. Nauk SSSR, v. 241, no. 4, 1985, 612-615

amine, polymer, organic synthesis, IR spectroscopy, analysis

The authors describe the results of experiments on the interaction
 of complexes of tertiary butyl chloride and ethyl chloride in
 1,3,5,5-tetramethylhexen-2 and 1-octene with tertiary amines.
 All the experiments showed that amines with a quaternary carbon
 atom as the initial chlorides. No reaction was observed.
 were obtained, and intense deformation bands (around 1600 cm⁻¹)
 were observed, but no significant change of the vinyl
 detected. As previously determined, the initial complexes of dienes
 of halides also react with amines without allyl rearranging. Unsaturated
 converted to saturated forms by hydrolysis or palladium. The
 formulas, and properties of the amines obtained are tabulated

AP5011138

The compositions, formulas, and properties of the chemical
micronates are also given. Orig. art. has: 1 figure and 1 table.

Leningradskiy tekhnologicheskii institut imeni Lensovetu (Leningrad
Institute)

29Feb64

ENCL: 00

REF CODE: 00 00

003

OTHER: 000

KLEYN, A.I.; DANILOV, A.M.; Prinimali uchastiye: KOLYASNIKOV, M.P.;
MISBAKHOV, A.K.; ANTROPOVA, N.G.; NESMEYANOV, Ye.V.;
KHARITONOV, Yu.A.; TIMONINA, V.M.; LOPEV, A.A.;
TSIKAREV, V.G.

Accelerating the assimilation of lime during slag formation
in basic open-hearth furnaces. Stal' 24 no.1:32-34 Ja '64.
(MIRA 17:2)

1. Ural'skiy nauchno-issledovatel'skiy institut chernykh
metallov i Zlatoustovskiy metallurgicheskiy zavod (for Kleyn,
Danilov).

L 04309-67 EWT(m)/I/EWP(w)/EWP(t)/ETI IJP(c) JD/JG

ACC NR: AP6018266 (A)

SOURCE CODE: UR/0133/66/000/002/0174/0175 61

AUTHORS: Bushmin, V. S.; Kalinina, Z. M.; Guseva, Z. F.; Kolyasrikova, R. I.;
Antropova, N. G.; Chikina, V. G. 60 B

ORG: Chelyabinsk Metallurgical Scientific Research Institute (Chelyabinskiy n.-1. institut metallurgii); Zlatoust Metallurgical Plant (Zlatoustovskiy metallurgicheskiy zavod)

TITLE: Production technology and properties of valve steel EI992 6

SOURCE: Stal', no. 2, 1966, 174-175

TOPIC TAGS: alloy steel, metallurgic research, valve, engine component, internal combustion engine / EI992 alloy steel

ABSTRACT: A new valve steel (EI992) has been developed. It is designed for use in construction of valves for high compression automobile engines. The micro-structure, hardness, and the usual mechanical properties of the steel were determined, and the results are tabulated. A brief description of the manufacturing process is presented. The following technique for valve production was developed:
1) thermal treatment after drop-forging with attainment of 20-26 R_c hardness;
2) mechanical treatment; 3) surfacing the face of valve head; 4) filling with

Card 1/2

UDC: 621.785:669.15:62-332

L 04309-67

ACC NR: AP6018266

sodium and sealing; 5) complete thermal treatment (quenching from 1050—1080C in oil or air and annealing at 760—800C). Valves made from steel E1992 have been successfully tested and are used at present in truck engines. Orig. art. has: 2 tables and 1 graph.

SUB CODE: 11, 13/SUBM DATE: none

Card

2/2

SHCHEGLOV, V.D.; KOLYASNIKOV, Yu.A.

Div'ya Cave. Peshchery no.4:5-19 '64.

(MIRA 18:5)

1. Permskiy gosudarstvennyy universitet.

MENUSHENKOV, P.P.; KHASIN, G.A.; VACHUGOV, G.A.; KRYLOV, S.M.; Prinimali uchastiye:
KOLYASHNIKOVA, R.I.; POCHKOVSKIY, R.A.; ANTROPOV, O.F.

Improving the macrostructure and reducing nonmetallic inclusions in the
electric slag refining of alloyed steel. Stal' 23 no.12:1110-1112 D
'63. (MIRA 17:2)

1. Zlatoustovskiy metallurgicheskiy zavod.

KOLYASNIKOVA, R.I. 2

L 16306-65 EWT(m)/EWA(d)/T/EMP(t)/EMP(b) MJW/JD
ACCESSION NR: AP4045659 S/0133/64/000/009/0836/0839

AUTHOR: Gavrilov, O. T.; Boyarshinov, V. A.; Shalimov, Al. G.;
Dolinin, D. P.; Khasin, G. A.; Kolyasnikova, R. I.; Savanok, I. L.

TITLE: Quality of vacuum-arc-melted ball-bearing steel 18 8

SOURCE: Stal', no. 9, 1964, 836-839

TOPIC TAGS: ball bearing steel, ShKh 15 ball bearing steel, vacuum
arc melted ShKh 15 steel, high grade ShKh 15 steel, improved mel-
ting method

ABSTRACT: A study has been made to determine the causes of flaws
in consumable-electrode vacuum-arc-melted ShKh 15 steel for ball
bearings and to find the means to eliminate them. As a result, se-
veral improvements in melting technique have been adopted, so that
it now is possible to obtain high-grade steel for precision and
special-purpose ball bearings by a single vacuum-arc melting of the
ShKh 15-steel consumable electrodes. The "spot" inhomogeneity of
the ingots, formerly the cause of 90% of the rejects, was fully eli-
minated by using symmetrical coaxial current conductor and by eli-

Card 1/2

L 16306-65

ACCESSION NR: AP4045659

minating nonsymmetrical magnetic masses. Light stringers, or stratified crystallization, were completely eliminated by automatic control of the electrode feed. Another type of ingot flaw, bright spots containing 0.04—0.05% less carbon than the bulk of the metal, was eliminated by improving the electrode holders and by leaving a portion of the electrode, 100—200 mm long, unmelted. The ingot pipe was eliminated by gradually decreasing the arc current from 4.0—4.4 Ka to 0.8—1.2 Ka during the last 10—15 min of melting. Orig. art. has: 10 figures and 3 tables.

ASSOCIATION: TsNIChM and Zlatoustovskiy metallurgicheskiy zavod (Zlatoust Metallurgical Plant)

SUBMITTED: 00

ENCL: 00

SUB CODE: IM, IX

NO REF SOV: 000

OTHER: 000

Card 2/2

KALININA, Z.M., inzhener; KOLYASNIKOVA, R.I., inzhener; POZNYAKOVA, Ye.M.,
inzhener.

Supplementary heat treatment of structural steel. Stal' 15 no.2:164-
167 F '55. (MIRA 8:5)

1. Zlaroustovskiy metallurgicheskii zavod.
(Steel, Structural--Heat treatment)

The results are analysed of experiments on the use of supplementary heat¹
treatment for improving the mechanical properties of alloy constructional steels
under mass-production conditions in metallurgical works.

KHASIN, G.A.; KOLYASNIKOVA, R.I.; VACHUGOV, G.A.; BOYARSHINOV, V.A.;
GAVRILOV, O.T.; ALEKSEYENKO, M.F.; MELIKHOV, P.I.; VYBORNOV, A.F.

Electric slag refining of stainless, heat-resistant steel.
Stal' 23 no.10:908-910 O '63. (MIRA 16:11)

VOINOV, S.G.; KOSOY, L.F.; SHUMOV, M.M.; SHALIMOV, A.G.; CHEKHOMOV, O.M.;
ANDREYEV, T.B.; AFANAS'YEV, S.G.; KALINNIKOV, Ye.S.; Primali
uchastiye: KORNEYENKOV, A.N.; GURSKIY, G.V.; BOKSHITSKIY, Ya.M.;
PETROV, A.K.; MOKHIR, Ye.D.; KOLYASNIKOVA, R.I.; KHASIN, G.A.;
DANILIN, V.P.; PLEKHANOV, P.S.; MAZUN, A.I.; MARKIN, A.A.

Refining converter steel in the ladle with liquid synthetic slag.
Stal' 22 no.3:226-232 Hr '62. (MIRA 15:3)
(Steel—Metallurgy)

ACCESSION NR: AP4040388

S/0133/64/000/006/0540/0544

AUTHORS: Okhrimovich, B. P. (Engineer); Tishchenko, O. I. (Engineer); Filatov, S. I. (Engineer); Kolyasnikova, R. I. (Engineer); Gurevich, Yu. G. (Candidate of technical sciences)

TITLE: Dark crust in the macrostructure of stainless heat resistant alloyed structural steels

SOURCE: Stal', no. 6, 1964, 540-544

TOPIC TAGS: steel, stainless steel, heat resistant steel, crust formation, steel 13Kh12NVMA, steel 13Kh14NVFRA, steel 20Kh15N3MA, steel Kh17N2, steel 4Kh9S2, steel Kh28, steel Kh17, steel Kh25, structural steel 18KhNVA, structural steel 15KhGNTA, structural steel 18KhNT, structural steel 40KhNMA

ABSTRACT: This study is a continuation of a previous investigation on the nature of dark crusts common on stainless heat-resistant steels of the types 13Kh12NVMA, 13Kh14NVFRA, 20Kh15N3MA, Kh17N2, Kh17, Kh25, 4Kh9S2, Kh28 and on the alloyed structural steels 18KhNVA, 15KhGNTA, 18KhNT, 40KhNMA. The investigation consisted of metallographic analysis of samples cut from "healthy" and from defective sections of ingots, and the comparison of their compositions and structures. Metal-

Card 1/2

ACCESSION NR: AP4040388

lographic study showed that defective sections were richer in carbon, aluminum, and aluminum oxides. Large silicate inclusions of complex composition with multiple aluminate inclusions were found to be distributed regularly in the direction of deformation. Corundum represented the basic part of the precipitate and occurred in the form of transparent colorless grains ($N_g = 1.767$). Spinel and titanium were less common. The precipitate also contained colored anisotropic inclusions with $N_g = 1.775$. The experiments revealed that the dark crust originated in the deadhead zone and penetrated the body of casts during the crystallization period. Defects caused by crust formation were eliminated by preventing the chipping of the crust and its subsequent sinking into the metal. This was achieved by decreasing the heat of flux by sprinkling lunerite 28, vermiculite powder, or chamotte over the ingots (2 kg per ton of metal). Orig. art. has: 1 table, 6 figures, and 1 formulas.

ASSOCIATION: Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy politekhnicheskiy institut (Zlatoust Metallurgical Plant and Chelyabinsk Polytechnic Institute)

SUBMITTED: 00

DATE ACQ: 24Jun64

ENCL: 00

SUB CODE: MM

NO REF SOV: 015

OTHER: 000

Card 2/2

OKHRIMOVICH, B.P., inzh.; TISHCHENKO, O.I., inzh.; FILATOV, S.I., inzh.;
KOLYASNIKOVA, R.I., inzh.; GUREVICH, Yu.G., kand.tekhn.nauk

Dark crust in the macrostructure of stainless, heat-resistant
structural steel alloys. Stal' 24 no.6:540-544 Je '64. (MIRA 17:9)

1. Zlatoustovskiy metallurgicheskiy zavod i Chelyabinskiy
politekhniicheskiy institut.

KOLYAYEV, Grigoriy Ivanovich; SKARZHINSKIY, V.I., otv. red.;
SHTUL'MAN, I.F., red.

[Pre-Cambrian tectonics of the Ukrainian iron-ore
provin.e] Tektonika dokaembria Ukrainskoi zhelezno-
rudnoi provintsi. Kiev, Naukova dumka, 1965. 188 p.
(MIRA 18:7)

$$-E^{\frac{1}{2}}(a)/E^{\frac{1}{2}}(b)/E^{\frac{1}{2}}(c)/E^{\frac{1}{2}}(d)/E^{\frac{1}{2}}(e)/E^{\frac{1}{2}}(f)/E^{\frac{1}{2}}(g)/E^{\frac{1}{2}}(h) \quad E^{\frac{1}{2}}(i)$$

32. 33

10-2-2000

15-012/0025/0028

...olev, V. A. (Engineer); Kolyayev, V. ...

stresses and crack formation in concrete. 10

...POLIKA, no. 12, 1964, 25-28

...ing, welding evaluation, weld...
...100121 steel, 68SP 300/115 ...

Calculations dealing with the bending moment and shear force were performed. Welded joints of steam pipes made of austenitic steel were tested by pulling force of sections from a 60SP-300/215 boiler which was damaged during its operation. The pipe had a diameter 194 x 38 mm and a length 1700 mm. The average stress was 211 bars and the temperature was 300°C. The results did not confirm the calculated values of stresses. The values of stresses of cracks which were found in the pipe were considerably smaller than the calculated values. The elongation was compared to the allowed value of 10%. The results showed that it did not change the value.

The tests of crack propagation were performed. The pipes were of the type 60SP-300/215. The analyses of the results showed that the values of stresses at the beginning of the crack propagation were lower than the complete yield strength of the material. The flexibility of the pipes and shells

ALC. SSION NRI. AT4047070

attempted. Orig. art. has: 3 figures and 1 table.

REF VTI

ENCL: 00

NO REF SOV: 1.

OTHER: 000

KOLYBALOV, I. N.

AUTHOR: KOZLITIN, G. I., and KOLYBALOV, I. N., engineers. PA - 2413
 TITLE: The Rational Design of the Mould for Continuous Casting of Steel.
 (Ratsional'naya konstruktsiya kristallizatora dlya nepreryvnoy
 razlivki stali, Russian).
 PERIODICAL: Stal', 1957, Vol 17, Nr 3, pp 209 -213 (U.S.S.R.)
 Received: 5 / 1957 Reviewed: 5 / 1957
 ABSTRACT: The first industrial test plant for semi-continuous casting of
 steel in the U.S.S.R. is installed at the factory "Krasnyy
 Oktyabr'". Non-corrosive steel of a diameter of 150 x 600 mm
 and a length of up to 6 m is cast. After the crystallizer is filled
 with metal up to from 200 - 300 mm from the upper edge, the ex-
 tracting device is automatically switched in and the block with a
 liquid core leaving the crystallizer reaches the zone of intense
 cooling. Since 1951, when the plant was put into operation, several
 constructional improvements were introduced, the most important
 of which was the replacement of the immobile crystallizer by a
 lighter one which could move backwards and forwards. The three
 constructions at present in use are compared: the immobile one,
 the constructions on springs, and the one with a backwards, and for-
 wards motion. Immobile crystallizers are being used by Babcock
 & Wilcox in the U.S.A., Böhler in Austria, and "Krasnoye Sormovo".
 The latter type was an effective means of preventing the hardened ex-
 terior layer from getting stuck in the crystallizer as frequently

Card 1/2

PA - 2413

The Rational Design of the Mould for Continuous Casting of Steel.
happens in the case of the immobile crystallizer because the exterior layer of the ingot when being lowered is immobile with respect to the walls of the crystallizer. The new crystallizer allowing a backwards- and forwards motion, which has been in use since 1956, weighs only 1400 kg, is considerably more simple, and less expensive. The elimination of "getting stuck" makes it possible to arrange remote control and automatization of the process of continuous pouring. Besides, the new crystallizer has greater strength. (7 illustrations).

ASSOCIATION: Not given.

PRESENTED BY:

SUBMITTED:

AVAILABLE: Library of Congress.

Card 2/2

KOLYBANOV, A., polkovnik; SELEZNEV, A., polkovnik

Action of the antiaircraft battery during the offensive. Voen. vest.
39 no. 4: 2-55 Ap '59. (MIRA 12:7)
(Antiaircraft guns)

KOLYBANOV, V.A.; LOZYUK, N.I.; SAKHAROV, V.G.; SUSHCHINSKAYA, I.Yu.;
BOBROV, V.Ya., kand. ekon. nauk, otv. red.; DENISOVA, V.N.,
red.izd-va; RAKHLINA, N.P., tekhn. red.

[Latin America; political and economic handbook] Latinskaya
Amerika; politiko-ekonomicheskii spravochik. Kiev, Izd-vo
AN USSR, 1963. 283 p. (MIRA 17:3)

KOLYBASOV, A.I.
KHRENNIKOV, S.S.; KOLYBASOV, A.I.

The initiative of M. Levchenko and G. Mukhanov; experience of the
Leninogorsk brick factory in lowering production costs. Gor.khoz.
Mosk. 25 no. 12:37-39 D '51. (MLRA 7:11)
(Moscow--Brick industry) (Brick industry--Moscow)

ACC NR: AP7008893

SOURCE CODE: UR/0386/66/004/008/0329/0332

AUTHOR: Shapiro, I. S.; Kolybasov, V. M.

ORG: Institute of Theoretical and Experimental Physics (Institut teoreticheskoy i eksperimental'noy fiziki)

TITLE: Treiman-Yang criterion for spin particles

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu, v. 4, no. 8, 1966, 329-332

TOPIC TAGS: relativistic particle, particle physics

SUB CODE: 20

ABSTRACT: An earlier article by the authors and G. R. AUGST showed that for nonrelativistic particles a number of cases exist where the Treiman-Yang criterion is applicable despite the fact that the spin of polar particle is nonzero (particularly when $j_z = 1/2$). Some authors assert that the Treiman-Yang criterion is also satisfied in the relativistic case for $1/2$ particle exchange. The present article shows that this assertion is incorrect and that the series of cases cited in the earlier article by the authors and G. R. AUGST remains valid for high-energy nuclear reactions when the left apex of the polar diagram is nonrelativistic and the right apex is relativistic.

Orig. art. has: 1 figure and 6 formulas. [JPRS: 39,688]

Card 1/1

0078 1/90

S/056/63/044/001/047/067
B102/B186

AUTHORS: Shapiro, I. S., Kolybasov, V. M.

TITLE: The mechanism of π^- capture by light nuclei

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 44,
no. 1, 1963, 270-271

TEXT: N. V. Rabin et al. (Phys. Rev. Lett., in press) have shown that when π^- mesons are stopped and captured by light emulsion nuclei (C^{12} or O^{16}) a number of p, d, and t are emitted with $E > 25$ Mev. Since this energy is much greater than the nuclear temperature, such emissions must be due to direct processes, e.g. interaction of π^- with nucleon groups such as He^2 , He^3 or α . On the basis of dispersion theory, using the pole graph formulas obtained by Shapiro (ZhETF, 41, 1616, 1961), the relative emission probabilities for p, d, and t on π^- capture are calculated for C^{12} . It is assumed that the above-mentioned nucleon groups are α -particles and that the reaction amplitude is constant. Besides the relative yields the energy spectrum of the particles emitted on π^- capture is calculated. The
Card 1/2

S/056/63/044/001/047/051
B102/B186

The mechanism of π^- capture ...

results are in relatively good agreement with experimental data, i.e. π^- capture by nuclear α -particles can be considered the dominant mechanism. There are 2 figures.

SUBMITTED: July 26, 1962

Card 2/2

of a series of reactions, full cross sections are measured. A simple analysis of such reactions based on the effective number of nucleons in the nucleus is made, and conditions required for the

Card 1/2

L 07905-67

ACC NR: AT6033193

use of this method are given. In a series of cases, the value of the widths calculated during stripping and pick-up experiments are below the values obtained from reaction $(p, 2p)$. Experiments were made at relatively low energies. Reactions (n, α) and (α, n) should be studied at energies ranging from several tens to several hundreds at Mev. The authors are grateful to I. S. Shapiro for attention given to their work, a series of remarks, and discussion of results. Orig. art. has: 6 figures, 14 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 23Apr66/ ORIG REF: 004/ OTH REF: 029/

Card 2/2

ACC NR: AT6001619

SOURCE CODE: UR /3138/65/000/364/0001/0036

AUTHOR: Kolybasov, V. M.

ORG: none

TITLE: Capture of stopped negative Pi-mesons by light nuclei

SOURCE: USSR. Gosudarstvennyy Komitet po ispol'zovaniyu atomnoy energii, Institut teoreticheskoy i eksperimentalnoy fiziki. Doklady, no. 364, 1965. Zakhvat ostano-vivshikhsya Pi negative-mezonov legkimi yadrami. 1-36.

TOPIC TAGS: pi meson, pion, ~~captured~~ light nucleus, alpha particle, fast particle

ABSTRACT: The capture of negative pi-mesons by light nuclei of the alpha-particle type (C^{12} , O^{16}) with the emission of fast protons, neutrons, deuterons, and tritons is considered. Relative yields and energy spectra of the final particles are calculated. The experimental data confirm the correctness of the assumption of the pre-dominant role of the alpha-particle pole diagram. The author is indebted to I. S. Shapiro for directing the work and for numerous valuable comments, to N. V. Rabin for discussion of a number of problems, and to T. D. Bogdanov and Ye. V. Leferov for making the numerical calculations. Orig. art. has: 45 equations and 10 figures.

SUB CODE: ²⁰~~KP-01~~/ SUBM DATE: 05Jul65/ ORIG REF: 014/ OTH REF: 031

Card 1/1

L 07905-67 ENT(m)

ACC NR: AT6033193

SOURCE CODE: UR/3138/66/000/438/0001/0024

AUTHOR: Kolybasov, V. M.; Smorodinskaya, N. Ya.

ORG: none

TITLE: Theoretical analysis of knocking out reaction

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii.
Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 438, 1966.

Teoreticheskiy analiz reaktsiy vybivaniya, 1-24

TOPIC TAGS: nucleus, matrix element, light nucleus, nucleon

ABSTRACT: Knocking out processes are analyzed theoretically. The differential cross sections of the $(p,2p)$ reactions calculated in the pole approximation are compared with almost all available experimental data at 155 Mev, 185 Mev, and 450 Mev. The proton widths of the light nuclei obtained from the $(p,2p)$ reactions are compared with those obtained from stripping or pick-up. In the consideration of a series of reactions, (p,pn) and $(\bar{\pi}^-, \bar{\pi}^-n)$ for instance, only full cross sections are measured. A simple analysis of such reactions based on the effective number of nucleons in the nucleus is made, and conditions required for the

Card 1/2

L 07905-67

ACC NR: AT6033193

APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000824020002-3

use of this method are given. In a series of cases, the value of the widths calculated during stripping and pick-up experiments are below the values obtained from reaction $(p,2p)$. Experiments were made at relatively low energies. Reactions $(\bar{\pi}^-, \alpha)$ and (α, n) should be studied at energies ranging from several tens to several hundreds at Mev. The authors are grateful to I. S. Shapiro for attention given to their work, a series of remarks, and discussion of results. Orig. art. has: 6 figures, 14 formulas, and 1 table.

SUB CODE: 20/ SUBM DATE: 23Apr66/ ORIG REF: 004/ OTH REF: 029/

Card 2/2

L 1840-66 EWT(m)/EWA(h)

ACCESSION NR: AT5022286

UR/3138/64/000/297/0001/0020

AUTHOR: Kolybasov, V. M.

TITLE: On the mechanism of (π super π^- , π super π^-) reactions

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 297, 1964. O mekhanizme (π minus, π minus π) reaktsiy, 1-20

TOPIC TAGS: carbon, π meson, nuclear cross section, neutron, deuteron, nuclear reaction

ABSTRACT: The cross section of the reaction $C^{12}(\pi^-, \pi^-\pi^0)C^{11}$ was calculated for bombarding mesons in the 40-600 MEV range. The results of the calculation of the excitation curve agree with the experimental data. The reduced vertex part (neutron width) of the virtual decay $C^{12} \rightarrow C^{11} + n$ was obtained from absolute values of the cross sections; it coincides with the value obtained from the pickup reaction $C^{12}(p, d)C^{11}$. These facts confirm the hypothesis that the investigated reaction involves a polar mechanism. "The author is deeply grateful to I. S. Shapiro for his interest and valuable comments, to S. F. Timashev for a discussion of problems relating to the finding of the reduced vertex

Card 1/2

L 1840-66

ACCESSION NR: AT5022286

part from experimental data, and to L. I. Koroleva for carrying out the numerical computations." Orig. art. has: 3 figures and 18 formulas.

ASSOCIATION: none

SUBMITTED: 24Nov64

ENCL: 00

SUB CODE: NP

NO REF SOV: 005

OTHER: 008

Card 2/2

L 4583-66 ENT(m)/ENA(h)

ACCESSION NR: AP5020266

UR/0367/65/002/001/0144/0150

AUTHOR: Kolybasov, V. M.

TITLE: On the mechanism of the $(\pi^-, \pi^- n)$ reactions 19

SOURCE: Yadernaya fizika, v. 2, no. 1, 1965, 144-150

TOPIC TAGS: pion scattering, carbon, scattering matrix, neutron scattering

ABSTRACT: The cross section for the reaction $C^{12}(\pi^-, \pi^- n)C^{11}$ was calculated in the pole approximation for incident negative pion energies in the range from 40 to 600 MeV, for the purpose of comparing the calculations with the experimental data of P. L. Reeder and S. S. Markowitz (Phys. Rev. v. 133, B639, 1964). In the calculations, the matrix element of the $C^{12}(\pi^-, \pi^- n)C^{11}$ reaction is expressed in terms of the matrix elements for the virtual decay $C^{12} \rightarrow C^{11} + n$ and for elastic $\pi^- n$ scattering. The quantities required for the calculations

Card 1/3

09011010

L 4583-66

ACCESSION NR: AF5020266

are taken from experiments on scattering of pions by free neutrons, the pickup reaction $C^{12}(p, d)C^{11}$, triplet pn scattering, and the reaction $C^{12}(\pi^-, \pi^- n)C^{11}$ itself. The reduced vertex part (neutron width) for the virtual decay $C^{12} \rightarrow C^{11} + n$ is obtained from the absolute value of the cross sections. This value agrees with that obtained from the pickup reaction $C^{12}(p, d)C^{11}$. The results thus confirm that in the energy region under consideration the principal mechanism for the $C^{12}(\pi^-, \pi^- n)C^{11}$ reaction is the pole mechanism. 'The author is deeply grateful to I. S. Shapiro for interest in the work and valuable remarks, to S. F. Timashev for a discussion of questions connected with the determination of the reduced vertex part from the experimental data, and to L. I. Koroleva for the numerical calculations.' Orig. art. has: 3 figures and 18 formulas.

Card 2/3

L 4583-66
ACCESSION NR: AP5020266

ASSOCIATION: Institut teoreticheskoy i eksperimental'noy fiziki
GKIAE (Institute of Theoretical and Experimental Physics, GKIAE)

SUBMITTED: 15Feb65

ENCL: 00

SUB CODE: NP

NR REF SOV: 003

OTHER: 010

Card 3/3 DP

L 29692-66 EWT(m)/T

ACC NR: AT6012694

SOURCE CODE: UR/3138/65/000/376/0001/0028

AUTHOR: Kolybasov, V. M.

ORG: Institute of Theoretical and Experimental Physics of the State Committee on the Use of Atomic Energy SSSR (Institut teoreticheskoy i eksperimental'noy fiziki Gos. komiteta po ispol'zovaniyu atomnoy energii SSSR)

TITLE: Capture of stopped π^- mesons by light nuclei. 2. Angular correlations of fast particles

SOURCE: USSR. Gosudarstvennyy komitet po ispol'zovaniyu atomnoy energii. Institut teoreticheskoy i eksperimental'noy fiziki. Doklady, no. 376, 1965. Zakhvat ostanovivshikhsya π^- mezonov legkimi yadrami. Uglovyye korrelyatsii bystrykh chastits, 1-28

TOPIC TAGS: π^- meson, meson interaction, Alpha particle reaction, fast particle, correlation statistics, neutron interaction, pion proton interaction, deuteron interaction, tritium

ABSTRACT: In the first part of the article (ITEF Preprint No. 364; Yadernaya fizika, in press) it was shown that the available experimental data on the energy spectra and relative yields of fast protons, deuterons, tritium nuclei, and neutrons produced when π^- mesons are stopped and captured by C^{12} and O^{18} are in good

Card 1/3

L 29692-66

ACC NR: AT6012694

agreement with the assumption that the pole α -particle diagram plays a prominent role in this process. In order to determine other quantities that characterize fast particles and are sensitive to the π -meson absorption mechanism, the authors investigated the angular correlations of the produced particles and the distribution of the nucleon pairs with respect to the relative-motion energy produced in such processes. The contribution of the phase volume to the angular correlations is first evaluated, and then the angular correlations due to the pole diagrams are determined. Different distinguishing features of n-t, n-d, n-n, and n-p correlations are discussed and some results obtained by others are compared. It is shown that not only the experimental data on the relative yields and on the spectra of fast particles produced in these reactions, but also the available data on the angular correlation of the neutrons agrees well with the assumption that the α -particle pole diagrams predominate. On the other hand, the two-nucleon capture mechanism yields spectra and angular distributions which do not agree with experiment. It is pointed out that the assumptions on which these deductions are based must still be experimentally verified. Some experiments still to be performed in order to obtain more information on the subject are proposed. The author thanks I. S. Shapiro for guidance and valuable remarks, A. V. Dem'yanov, A. Ye. Ignatenko, A. V. Kuptsov, V. N. Shkudenko for the opportunity to read their papers prior

Card 2/3

L 29692-66

ACC NR: AT6012694

to publication, N. V. Rabin for a discussion of several problems, and L. M. Voronina for the numerical calculations. Orig. art. has: 5 figures and 51 formulas. 2

SUB CODE: 20/ SUBM DATE: 09Jul65/ ORIG REF: 006/ OTH REF: 006

Card 3/3 CC

SHISHKIN, S.A.; KOLYBELIN, N.M.; MOROZOVA, Yu.V., red.izd-va;
KUZNETSOVA, A.I., tekhn. red.

[Precast concrete-block stoves for housing construction by
lumbering establishments] Sbornye betonoblochnye pechi dlia
zhilishchnogo stroitel'stva lespromkhozov. Sost. S.A.Shishkin,
N.M.Kolybelin. Moskva, Goslesbumizdat, 1960. 64 p.

(MIRA 15:7)

1. Khimki. Tsentral'nyy nauchno-issledovatel'skiy institut me-
khanizatsii i energetiki lesnoy promyshlennosti.

(Stoves) (Concrete blocks)

KOLYBIN, V.

Presents from young naturalists. Znan.ta pratsia no.10:7
0 '59. (MIRA 13:2)

1. Starshyy metodist otdela darvinizma Respublikanskoy
stantsii yunykhn naturalistov.
(Ukraine--Sugar beets) (Khmel'nitskii Province--Corn(Maize))

KOLYBIN, V.A. [Kolybin, V.O.]

Growth of certain varieties and hybrids of the pernyi
silkworm fed under different thermal conditions. Pratsi
Inst.zool.AN URSS 16:112-117 '60. (MIRA 13:7)
(Silkworms)

SINITSKIY, N.N.; BOGACH, A.V.; KOLYBIN, V.A.

Effect of the conditions of the environment and the action of
biologically active substances on the survival and productivity of
the mulberry silkworm. Vop. ekol. 7:165-166 '62. (MIRA 16:5)

1. Institut zoologii AN UkrSSR, Kiyev.
(Silkworms)

KOLYBIN, V.A. [Kolybin, V.O.]; ZOLOTOVERKHAYA, I.M. [Zolotoverkha, I.M.]

Diurnal rhythmicity of the sorption of vital stains by the intestinal tissues of silkworm caterpillars. Dop. AN URSR no.12:1653-1655 '63.

(MIRA 17:9)

1. Institut zoologii AN UkrSSR. Predstavleno akademikom AN UkrSSR V.G. Kas'yanenko [Kas'ianenko, V.H.].

SINITSKIY, N.N. [Synyts'kyi, M.M.]; BOGACH, A.V. [Bohach, A.V.]; KOLYBIN,
V.A. [Kolybin, V.O.]

Effect of antibiotic substances on the growth, development and
productivity of the silkworm Bombyx mori L. Pratsi Inst. zool.
AN URSR 20:13-20 '64. (MIRA 18:4)

KOLYBIN, V.A. [Kolybin, V.O.]

Characteristics of the growth of Lepidoptera. Pratsi Inst. zool.
AN URSR 20:21-27 '64. (MIRA 18:4)

KOLYBINA, O.D.

Pavlov's theory in hospital administration. Vest.AMN SSSR no.3:
27-33 '53. (MLBA 7:1)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
im. N.A.Semashko (direktor Ye.D.Ashurov) Akademii meditsinskikh
nauk SSSR. (Hospitals--Management and regulation)
(Therapeutics)

1. KOLYBINA, O. D.
2. USSR (600)
4. Ukraine - Hospitals
7. Therapeutic and disease prevention regimen adopted in hospitals of the Ukrainian S.S.R. Sov. zdrav., 12, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953. Unclassified.

KOLYBINA, O.D. (Moscow)

Proper service to patients. Med.sesra no.2:21-24 F '54. (MIRA 7:1)
(Nurses and nursing) (Hospitals).

KOLYBINA, O.D.

New hospitalization system in Leningrad. Sov.zdrav. 17 no.1:11-14
Ja '58. (MIRA 11:2)

1. Iz Instituta organizatsii zdavookhraneniya i istorii meditsiny
imeni N.A.Semashko Ministerstva zdavookhraneniya SSSR.

(HOSPITALS

reorganiz. of system of hosp. (Rus))

KOLYBINA, O.D.

Work of the medical center at the Smolensk Linen Combine. Zdrav.
Ros. Feder. 3 no.12:17-20 D '59. (MIRA 13:4)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A. Semashko (direktor Ye.D. Ashurkov).
(SMOLENSK--TEXTILE INDUSTRY--HYGIENIC ASPECTS)

KOLYBINA, Ol'ga Dmitriyevna; SAFONOV, A.G., red.; POGOSKINA, M.V., tekhn.
red.

[Principles of a therapeutic and prophylactic regimen] Osnovy
lechebno-okhranitel'nogo rezhima. Moskva, Medgiz, 1961. 106 p.
(MIRA 15:1)

(HOSPITALS) (THERAPEUTICS)

KAL'YU, P.I., red.; KOLYBINA, O.D., red.; POGOSKINA, M.V., tekhn.
red.

[Medical service for workers in industrial enterprises] Me-
ditsinskoe obsluzhivanie rabochikh promyshlennykh predpriati.
Moskva, Medgiz, 1961. 124 p. (MIRA 15:4)
(MEDICINE, INDUSTRIAL)

SHCHERBAKOVA, Mira Grigor'yevna; KOLYBINA, O.D., red.; MIRONOVA,
A.M., tekhn. red.

[Work of the medicosanitary service in reducing disease
incidence among miners] Opyt raboty mediko-sanitarnoi cha-
sti po snizheniiu zaboлеваemosti shakhterov. Moskva, Medgiz,
1963. 122 p. (MIRA 16:4)

(MINERS--DISEASES AND HYGIENE)

KOLYCHEV, A.

What garage equipment will be manufactured by the GARO Trust in
1961. Avt.transp. 39 no.1:22-25 Ja '61. (MIRA 14:3)

1. Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu
garazhnogo oborudovaniya.
(Garages—Equipment and supplies)

KOLYCHEV, A.

Instruments for checking the quality of automobile brakes in the
course of operation. Avt. transp. 39 no.5:27-30 My '61.
(MIRA 14:5)

1. Glavnyy inzh.Tresta po rukovodstvu zavodami po proizvodstvu
garazhnogo oborudovaniya.
(Automobiles—Brakes)

KOLYCHEV, A. L.

Rostov

Mbr., Editorial Bd., Avtomobil', -1948-.

Chief Engineer, Rostov Automobile Repair Trust, -cl948-

"Improving the quality of automobile maintenance," Avtomobil', No. 9, 1948.

YEFREMOV, Vladimir Valentinovich, professor; KOLYCHEV, A.L., redaktor;
MAL'KOVA, N.V., tekhnicheskij redaktor

[Automobile repair] Remont avtomobilei. Moskva, Avtotransizdat
ministerstva avtomobil'nogo transporta i shosseinykh dorog SSSR,
Pt. 1. 1954. 343 p. (MLRA 7:10)
(Automobiles--Repairing)

KOLYCHEV, A., inzhener.

Repair of auto parts. Avt.transp. 32' no.1:24-26 Ja '54.(MIRA 7:8)
(Automobiles--Repairing)

YEFREMOV, V.V., professor; KOLYCHEV, A.L., redaktor; MAL'KOVA, N.V.
tekhnicheskii redaktor.

[Repair of automobiles] Remont avtomobilei. Moskva, Nauchno-
tekhn.izd-vo avtotransportnoi lit-ry, Pt. 2, 1955. 310 p.
(Automobiles--Repairing) (MLRA 8:12)

KOLYCHEV, A., inzhener.

Improving the organisation of automobile repairing. Avt.
transp. 34 no.10:19-21 0 '56. (MLRA 9:12)

(Automobiles--Repairing)

Kolychev, A. L.

ZHERNOVKOV, A.S.; NIKONENKO, I.N.; KOLYCHEV, A.L., red.; SHELUKHIN, A.S., red.; KOGAN, F.L., tekhn.red.

[Garage and automobile repairing equipment; a reference catalog]
Garazhnoe i avtoremontnoe oborudovanie; katalog-spravochnik, Sostaviteli A.S.Zhernovkov i I.N.Nikonenko. Pod. obshchei red. A.L. Klycheva. Moskva, Nauchno-tekhn.izd-vo avtotransp. lit-ry, 1957. 191 p. (MIRA 11:3)

1.Russia (1917- R.S.F.S.R.) Ministerstvo avtomobil'nogo transporta i shosseynykh dorog. 2.Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu garazhnogo oborudovaniya (for Kolychev)
(Automobiles--Service stations)

Kolychev, A. L.
KOLYCHEV, A.

What will the enterprises of the Trust for the Management of Plants
Manufacturing Garage Equipment produce? Avt.transp. 35 no.2:5 F '57.
(MIRA 10:12)

1. Glavnyy inzhener Tresta po rukovodstvu zavodami po proizvodstvu
garazhnogo oborudovaniya.

(Service stations)

Kolychev, A. L.
KOLYCHEV, A.

Mobile automobile repair shop. Avt. transp. 36 no.1:15-16 Ja '58.
(Automobiles--Maintenance and repair) (MIRA 11:1)

KOLYCHEV, A., inzh.

Steam generator for tire-repair shops. Avt. transp. 36 no.10:18-20
0 '58. (MIRA 13)

(Boilers--Design)

KOLYCHEV, A.

Service-station equipment made in the U.S.S.R. at the Kabul Exhibition.
Avt. transp. 36 no.11:55-56 N '58. (MIRA 11:11)
(Kabul (Afghanistan)--Automobiles--Exhibitions)

KOLYCHEV, A.

Garage and Automobile Repair Equipment Trust. Avt.transp. 37 no.1:
55-56 Ja '59. (MIRA 12:2)

1. Glavnyy inzhener tresta po rukovodstvu zavodami po proizvodstvu
garazhnogo oborudovaniya.

(Motor vehicles--Maintenance and repair)

KOLYCHEV, Aleksandr Leonidovich; ZHEHNOVKOV, Anatoliy Sergeyevich;
YABLOKOV, V.I., red.; MAL'KOVA, N.V., tekhn.red.

[Garage equipment; handbook] Garazhnoe oborudovanie; spravochnik. Moskva, Nauchno-tekhn.izd-vo M-va avtomobil'nogo transporta i shosseinykh dorog RSFSR, 1960. 182 p.

(MIRA 13:7)

(Garages--Equipment and supplies)

KOLYCHEV, Aleksandr Leonidovich; ZHERNOVKOV, Anatoliy Sergeyevich;
YABLOKOV, V.I., red.; MAL'KOVA, N.V., tekhn. red.

[Garage equipment; manual] Garazhnoe oborudovanie; spravochnik.
Izd.2., ispr. i dop. Moskva, Avtotransizdat, 1962. 239 p.
(MIRA 15:5)
(Service stations--Equipment and supplies)

KOLYCHEV, A.

Present status and future development of the production of
maintenance and repair equipment. Avt. transp. 43 no.6:
4-6 Je '65. (MIRA 18:6)

1. Glavnyy inzhener Tresta po proizvodstvu garazhnogo
oborudovaniya Ministerstva avtomobil'nogo transporta i
shosseynykh dorog RSFSR.

11(6), 21(1)

AUTHOR: Kolychev, B. S.

SOV/89-6-5-3/33

TITLE: Application of the Processes of Sorption and Extraction in the Hydrometallurgy of Uranium (Primeneniye protsessov sorbtsii i ekstraktsii v gidrometallurgii urana)

PERIODICAL: Atomnaya energiya, 1959, Vol 6, Nr 5, pp 513 - 527 (USSR)

ABSTRACT: This is a report on the subject mentioned in the above title, which was compiled on the basis of Western Publications concerning the 2nd Geneva Atomic Conference of 1958. The following Geneva reports were dealt with: 230, 484, 496, 497, 500, 501, 509, 511, 1096, 1113, 1255, 1361, 1412, 1533, 1550, 1719, 2063. The various extraction schemes are dealt with partly schematically and partly in detail. They are represented by tables, diagrams, or by schematical drawings. There are 8 figures, 3 tables, and 1 reference.

SUBMITTED: February 7, 1959

Card 1/1

SPITSYN, Vikt.; KOLYCHEV, B. S.

Results of the International Conference on the Processing
and Disposal Radioactive Waste held in Monaco. Atom.
energ. 9 no.1:58-63 J1 '60. (MIRA 13:7)
(Radioactive waste disposal--Congressess)

MARTIN, F.S.; MAYLS, Dzh.L. [Miles, G.L.]; ZARUBIN, A.I. [translator]; KO-
LYCHEV, B.S. [translator]; SAGALOVICH, I.D. [translator]; GALKIN,
N.P., prof. Direktor tekhn.nauk, red.; KAMAYEVA, O.M., red. izd-va;
ATTOPOVICH, M.K., tekhn.red.

[Chemical processing of nuclear fuels] Khimicheskaya pererabotka
yadernogo topliva. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po
chernoi i tsvetnoi metallurgii, 1961. 264 p. Translated from the
English. (MIRA 14:8)

1. Head of Chemistry Section, Australian Atomic Energy Commission
(for Mayls).

(Nuclear fuels)

GALKIN, Nikolay Petrovich; TIKHOMIROV, Vladislav Borisovich; KOLYCHEV, B.S.,
kand. tekhn. nauk, red.; ANDREYENKO, Z.D., red.; POPOVA, S.M., tekhn.
red.

[Main processes and equipment in the technology of uranium] Osnovnye
protssesy i apparaty tekhnologii urana. Pod red. B.S.Kolycheva. Mo-
skva, Gos. izd-vo lit-ry v oblasti atomnoi nauki i tekhniki, 1961.
218 p. (MIRA 14:10)

(Uranium)

KOLYCHEV, B.S.

Results of the conference on the problem of radioactive waste
disposal in seas and oceans. Atom.energ. 10 no.6:634-635 Je '61.
(MIRA 14:6)

(Radioactive waste disposal—Congressses)

KOLYCHEV, B.S.

Symposium on the Treatment and burial of highly-active wastes.
Atom. energ. 15 no.2:175-177 Ag '63. (MIRA 16:8)
(Radioactive waste d'sposal)

KOLYCHEV, B.S.

Study on the treatment and nuriol of radioactive waste.
Atom. energ. 17 no.2:154-156 Ag '64 (MIRA 17:8)

BAKHUROV, Vasil'y Gerasimovich; LUTSENKO, Inna Kirillovna;
SHASHKINA, Nadezhda Nikolayevna; KOLICHEV, B.S., red.;
SOLDATENKOVA, T.A., red.

[Radioactive wastes of uranium plants] Radioaktivnye ot-
khody uranovykh zavodov. Moskva, Atomizdat, 1965. 150 p.
(MIRA 18:7)

EWI(m)/EPF(c)/EPF(n)-2/EWG(m)/EPR 4-4 4-4 4-4 4-4 DM
NR: AP5012488 UR/0089/65/018/004/0428/0431
621.039.7

28
3

Zimakov, P. V.; Kolychev, B. S.; Kulichenko, V. V.;
Yu. P.

Heat released by highly radioactive solid compounds in
with the problem of their disposal or utilization

Atomnaya energiya, v. 18, no. 4, 1965, 428-431

radioactive waste, radioactive waste disposal, spon-
taneous heat utilization

The authors speculate on the possibility of making ef-
ficient use of the heat spontaneously generated in radioactive waste,
but that as the quantity of waste accumulates in any one
problem of spontaneous heating becomes more and more acute

and point out that as the quantity of waste accumulates in any one

the problem of spontaneous heating becomes more and more acute.
vaults for radioactive wastes are discussed together with
arrangements and methods of cooling. It is suggested that one
way of regulating the temperature in the vault is to produce

NR: AP5012488

normal process in it, such as melting a charge of glass-producing material to maintain the temperature at a fixed level. To electric simulator was constructed for the simulation of released from molten high-activity compounds. Tests with the simulator have shown that an average of 2 kg of glass-producing material is molten per hour for each kilowatt of power in excess necessary to maintain the melting temperature of the charge. A temperature of 1070 -- 1170K could be maintained in the model vault under different simulated specific activities of the waste (2.5 -- 10 Curie/dm³). Although such an arrangement of a vault of larger size than is customarily used, the results overcome some of the difficulties connected with the spontaneous heating of stored radioactive waste can be eliminated by using small melt charges of low-activity waste. Furthermore, the low-activity compounds can be used before burial as sources of electricity. Original article has: 3 figures and 6 tables.

NR: None

NR: AP5012488

20Mar64

ENCL: 00

SUB CODE: NP

004

OTHER: 004

KOLYCHEV, Boris Sergeyevich; MALYAVINA, O.M., red.

[The atom quenches thirst] Atom utoliaet zhazhdu. Moskva, Atomizdat, 1965. 81 p. (MIRA 18:10)

L 27219-66 EPF(n)-2/ENT(m)/ETC(f)/ENG(m) WW

ACC NR: AM0002130

Monograph

UR/
10
B+1

Kolychev, Boris Sergeyevich

The atom quenches thirst (Atom utolyayet zhazhdu) Moscow, Atomizdat, 1965. 81 p.
illus., biblio. 15,300 copies printed.

TOPIC TAGS: atomic energy use, desalinization, water resources

PURPOSE AND COVERAGE: This is a popular description of various methods of water desalinization. Particular attention is paid to desalinization using the atomic energy because it is the cheapest prospective method. The book is intended for the general reader.

TABLE OF CONTENTS:

Introduction -- 3

Unquenched thirst alongside water -- 5

Salt retreats before frost -- 9

Substances filter out the unseen -- 16

Electricity aids the sorbent -- 22

Card 1/2

UDC: 621.039.57:663.6

13Aug65

ADP NR 04 110

Power plants use solar energy -- 26

The salt barrier impedes desalinization -- 33

Mechanical energy replaces thermal -- 55

Source of atomic energy -- 62

Taming atomic energy -- 67

Incombustible fuel -- 71

Pages of the future -- 77

Bibliography -- 83

REF 701 12 SUBM DATE: 13Aug65/ ORIG REF: 011/ OTH REF: 003'

Card 2/2

UDC: 621.039.57:663.6

KOLYCHEV, G.K.; LYUTTSAU, A.G., inzh., retsenzents; MAKSIMOV, N.V.,
kand. tekhn. nauk, red.; VASIL'YEVA, N.N., tekhn. red.

[Block systems of d.c. locomotives] Blokirovki na elektro-
vozakh postoiannogo toka. Moskva, Transport, 1964. 62 p.
(HRA 17:3)

YANOV, Viktor Petrovich; KUROCHKA, A.L.; ALIKIN, R.I.; KOLYCHEV,
G.K., inzh., retsenzent; KALININ, V.K., kand. tekhn.
nauk, red.; DROZDOVA, N.D., tekhn. red.

[Auxiliary machines of main line d.c. locomotives] Vspomo-
gatel'nye mashiny magistral'nykh elektrovozov postoiannogo
toka. Moskva, Transzheldorizdat, 1963. 119 p.

(MIRA 16:8)

(Electric locomotives--Electric equipment)

KOLYCHEV, I.

25261

KOLYCHEV, I. Za shirokoe primeneniye summiruyushikh mashin v gosbanke.
Denbel'i kredit, 1948, No. 6, S. 25-30

SO: Letopis'Zhurnal Statey, No. 30, Moscow, 1948

PROSELOV, A.; KOLYCHEV, I.; NIKANOROV, T.; KAGANOVICH, A.

[The use of machines in accounting operations of the State Bank] Mekhanizirovannyi uchet v gosbanke. Moskva, Gosfinizdat, 1952. 306 p.

(MLRA 6:7)

(Banks and banking--Accounting) (Calculating machines)

KOLYCHEV, I., Chief

Vet. Dept., Ivanov Oblast Admin. of Agric.

"Work of the Central Zooveterinary District of Kineshensk raion,
Ivanov oblast."

SO: Veterinarika 28(3), 1951, p. 54

KOLYCHEV, I. A.

Veterinary Bacteriology

Kineshma interdistrict veterinary bacteriological laboratory - Veterinarria 29, no. 6, 1952.
pages 15-17; U-4802

Monthly List of Russian Accessions, June of Congress. August 1952. Unclassified.

KOLYCHEV, I.I., tekhnik

Rapid cross drifting. Shakht. stroi. 6 no.6:21-23 Je '62.
(MIRA 15:6)

1. Trest Pervomayskugol'.
(Donets Basin--Coal mines and mining)
(Blasting)

KOLYCHEV, L.

Useful monograph ("Undivided funds and capital investments of collective farms" by S. Koriunov. Reviewed by L. Kolychev).
Fin. SSSR 22 no.3:90-92 Mr '61. (MIRA 14:7)
(Collective farms--Finance) (Koriunov, S.)

RUSAKOV, G.K., kand.sel'skokhoz.nauk; SUBBOTIN, V.P., kand.ekon.nauk;
LIPATOVA, V.A., kand.ekon.nauk; ARINA, A.Ye., kand.sel'skokhoz.
nauk; KORENYUGIN, G.T., mladshiy nauchnyy sotrudnik; PANKOVA,
K.I., aspirantka; KLADCHIKOV, S.H., otv.red.; KOLYCHEV, L.I.,
red.; SVYADOSTS, Yu.I., red.

[Accounting on collective farms when business accounting is in
use] Bukhgalterakii uchet v kolkhozakh pri vnedrenii khozrascha-
ta. Moskva, 1960. 246 p. (MIRA 13:5)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki
sel'skogo khozyaystva. 2. Zaveduyushchiy otdelom ekonomiki i orga-
nizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-issledovatel'sko-
go instituta ekonomiki sel'skogo khozyaystva (for Rusakov). 3. Otdel
ekonomiki i organizatsii proizvodstva kolkhozov Vsesoyuznogo nauchno-
issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva (for
Subbotin, Lipatova, Arina). 4. Kashirskiy opornyy punkt Vsesoyuznogo
nauchno-issledovatel'skogo instituta ekonomiki sel'skogo khozyaystva
(for Korenyugin). 5. Vsesoyuznyy nauchno-issledovatel'skiy institut
ekonomiki sel'skogo khozyaystva (for Pankova).
(Collective farms--Accounting)

GORSHKOV, M.P., nauchnyy sotr.; KOLYCHEV, L.I., nauchnyy sotr.;
KOTOV, G.G., nauchnyy sotr.; KUZ'MINA, V.I., nauchnyy sotr.;
RUMYANTSEVA, A.V., nauchnyy sotr.; SELINA, N.G., nauchnyy
sotr.; CHEREPKOVA, I.V., nauchnyy sotr.; POTAPOV, Kh.Ye.,
red.; OVCHINNIKOV, N.G., red.; PONOMAREVA, A.A., tekhn. red.

[Raising the level of the development of collective farm operation] Povyshenie urovnia razvitiia kolkhoznogo proizvodstva.
Moskva, Izd-vo ekon. lit-ry, 1961. 236 p. (MIRA 15:2)

1. Moscow. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva. 2. Vsesoyuznyy nauchno-issledovatel'skiy institut ekonomiki sel'skogo khozyaystva (for Gorshkov, Kolychev, Kotov, Rumyantseva, Selina, Cherepkova, Kuz'mina).
(Farm management)

SHERMENEV, M.K., kand. ekon. nauk; MOTOV, S.I.; KOLYCHEV, L.I.,
kand. ekon. nauk; BRAGINSKIY, L.V.; GRIGOR'YEV, S.T.;
PYLAYEVA, A.P., red.; BALLOD, A.I., tekhn. red.

[Finance and the issuing of credit to agricultural enter-
prises] Finansy i kreditovanie sel'skokhoziaistvennykh pred-
priatii. Moskva, Sel'khozizdat, 1963. 342 p.

(MIRA 16:5)

(Agriculture--Finance)

KOLYCHEV, Lev Ivanovich; BOROZDIN, B., red.; LEBEDEV, A., tekhn. red.

[Working capital of collective farms] Oborotnye sredstva
kolkhozov. Moskva, Gosfinizdat, 1963. 193 p.

(MIRA 16:7)

(Collective farms--Finance)

IKONNIKOV, V.V., prof.; VASIL'YEV, P.G., ,and, ekon.nauk; LAVROV, V.V., prof.; RYUMIN, S.M.; KOLYCHEV, L.I., kand. ekon. nauk; SAMOYLOV, V.K.; LYSKOVICH, A.A.; KOLOMIN, Ye.V., kand. ekon. nauk; MITEL'MAN, Ye.L., kand. ekon. nauk; BEL'KINA, R.K., kand. ekon. nauk; SHTEYNHLEYGER, S.B., kand. ekon. nauk; ROTLEYDER, A.Ya., kand. ekon. nauk; POGODIN, Yu., red.; TELEGINA, T., tekhn. red.

[Finance and credit in the U.S.S.R.] Finansy i kredit SSSR.
Moskva, Izd-vo "Finansy," 1964. 447 p. (MIRA 17:3)